

281278US0PCT.ST25
SEQUENCE LISTING

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<120> USE OF PRION CONVERSION MODULATING AGENTS

<130> 281278US0PCT

<140> 10/560,978

<141> 2005-12-16

<150> PCT/EP04/51170

<151> 2004-06-18

<150> EP 03101795.7

<151> 2003-06-19

<160> 6

<170> PatentIn version 3.3

<210> 1

<211> 4563

<212> PRT

<213> Homo sapiens

<400> 1

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Glu Asn Val Ser Leu Val Cys Pro Lys Asp Ala Thr Arg Phe Lys His
35 40 45

Leu Arg Lys Tyr Thr Tyr Asn Tyr Glu Ala Glu Ser Ser Ser Gly Val
50 55 60

Pro Gly Thr Ala Asp Ser Arg Ser Ala Thr Arg Ile Asn Cys Lys Val
65 70 75 80

Glu Leu Glu Val Pro Gln Leu Cys Ser Phe Ile Leu Lys Thr Ser Gln
85 90 95

Cys Thr Leu Lys Glu Val Tyr Gly Phe Asn Pro Glu Gly Lys Ala Leu
100 105 110

Leu Lys Lys Thr Lys Asn Ser Glu Glu Phe Ala Ala Ala Met Ser Arg
115 120 125

Tyr Glu Leu Lys Leu Ala Ile Pro Glu Gly Lys Gln Val Phe Leu Tyr
130 135 140

Pro Glu Lys Asp Glu Pro Thr Tyr Ile Leu Asn Ile Lys Arg Gly Ile
145 150 155 160

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Ile Ser Ala Leu Leu Val Pro Pro Glu Thr Glu Glu Ala Lys Gln Val
165 170 175

Leu Phe Leu Asp Thr Val Tyr Gly Asn Cys Ser Thr His Phe Thr Val
180 185 190

Lys Thr Arg Lys Gly Asn Val Ala Thr Glu Ile Ser Thr Glu Arg Asp
195 200 205

Leu Gly Gln Cys Asp Arg Phe Lys Pro Ile Arg Thr Gly Ile Ser Pro
210 215 220

Leu Ala Leu Ile Lys Gly Met Thr Arg Pro Leu Ser Thr Leu Ile Ser
225 230 235 240

Ser Ser Gln Ser Cys Gln Tyr Thr Leu Asp Ala Lys Arg Lys His Val
245 250 255

Ala Glu Ala Ile Cys Lys Glu Gln His Leu Phe Leu Pro Phe Ser Tyr
260 265 270

Asn Asn Lys Tyr Gly Met Val Ala Gln Val Thr Gln Thr Leu Lys Leu
275 280 285

Glu Asp Thr Pro Lys Ile Asn Ser Arg Phe Phe Gly Glu Gly Thr Lys
290 295 300

Lys Met Gly Leu Ala Phe Glu Ser Thr Lys Ser Thr Ser Pro Pro Lys
305 310 315 320

Gln Ala Glu Ala Val Leu Lys Thr Leu Gln Glu Leu Lys Lys Leu Thr
325 330 335

Ile Ser Glu Gln Asn Ile Gln Arg Ala Asn Leu Phe Asn Lys Leu Val
340 345 350

Thr Glu Leu Arg Gly Leu Ser Asp Glu Ala Val Thr Ser Leu Leu Pro
355 360 365

Gln Leu Ile Glu Val Ser Ser Pro Ile Thr Leu Gln Ala Leu Val Gln
370 375 380

Cys Gly Gln Pro Gln Cys Ser Thr His Ile Leu Gln Trp Leu Lys Arg
385 390 395 400

Val His Ala Asn Pro Leu Leu Ile Asp Val Val Thr Tyr Leu Val Ala
405 410 415

Leu Ile Pro Glu Pro Ser Ala Gln Gln Leu Arg Glu Ile Phe Asn Met
420 425 430

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Ala Arg Asp Gln Arg Ser Arg Ala Thr Leu Tyr Ala Leu Ser His Ala
 435 440 445
 Val Asn Asn Tyr His Lys Thr Asn Pro Thr Gly Thr Gln Glu Leu Leu
 450 455 460
 Asp Ile Ala Asn Tyr Leu Met Glu Gln Ile Gln Asp Asp Cys Thr Gly
 465 470 475 480
 Asp Glu Asp Tyr Thr Tyr Leu Ile Leu Arg Val Ile Gly Asn Met Gly
 485 490 495
 Gln Thr Met Glu Gln Leu Thr Pro Glu Leu Lys Ser Ser Ile Leu Lys
 500 505 510
 Cys Val Gln Ser Thr Lys Pro Ser Leu Met Ile Gln Lys Ala Ala Ile
 515 520 525
 Gln Ala Leu Arg Lys Met Glu Pro Lys Asp Lys Asp Gln Glu Val Leu
 530 535 540
 Leu Gln Thr Phe Leu Asp Asp Ala Ser Pro Gly Asp Lys Arg Leu Ala
 545 550 555 560
 Ala Tyr Leu Met Leu Met Arg Ser Pro Ser Gln Ala Asp Ile Asn Lys
 565 570 575
 Ile Val Gln Ile Leu Pro Trp Glu Gln Asn Glu Gln Val Lys Asn Phe
 580 585 590
 Val Ala Ser His Ile Ala Asn Ile Leu Asn Ser Glu Glu Leu Asp Ile
 595 600 605
 Gln Asp Leu Lys Lys Leu Val Lys Glu Ala Leu Lys Glu Ser Gln Leu
 610 615 620
 Pro Thr Val Met Asp Phe Arg Lys Phe Ser Arg Asn Tyr Gln Leu Tyr
 625 630 635 640
 Lys Ser Val Ser Leu Pro Ser Leu Asp Pro Ala Ser Ala Lys Ile Glu
 645 650 655
 Gly Asn Leu Ile Phe Asp Pro Asn Asn Tyr Leu Pro Lys Glu Ser Met
 660 665 670
 Leu Lys Thr Thr Leu Thr Ala Phe Gly Phe Ala Ser Ala Asp Leu Ile
 675 680 685
 Glu Ile Gly Leu Glu Gly Lys Gly Phe Glu Pro Thr Leu Glu Ala Leu
 690 695 700

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Phe Gly Lys Gln Gly Phe Phe Pro Asp Ser Val Asn Lys Ala Leu Tyr
 705 710 715 720
 Trp Val Asn Gly Gln Val Pro Asp Gly Val Ser Lys Val Leu Val Asp
 725 730 735
 His Phe Gly Tyr Thr Lys Asp Asp Lys His Glu Gln Asp Met Val Asn
 740 745 750
 Gly Ile Met Leu Ser Val Glu Lys Leu Ile Lys Asp Leu Lys Ser Lys
 755 760 765
 Glu Val Pro Glu Ala Arg Ala Tyr Leu Arg Ile Leu Gly Glu Glu Leu
 770 775 780
 Gly Phe Ala Ser Leu His Asp Leu Gln Leu Leu Gly Lys Leu Leu Leu
 785 790 795 800
 Met Gly Ala Arg Thr Leu Gln Gly Ile Pro Gln Met Ile Gly Glu Val
 805 810 815
 Ile Arg Lys Gly Ser Lys Asn Asp Phe Phe Leu His Tyr Ile Phe Met
 820 825 830
 Glu Asn Ala Phe Glu Leu Pro Thr Gly Ala Gly Leu Gln Leu Gln Ile
 835 840 845
 Ser Ser Ser Gly Val Ile Ala Pro Gly Ala Lys Ala Gly Val Lys Leu
 850 855 860
 Glu Val Ala Asn Met Gln Ala Glu Leu Val Ala Lys Pro Ser Val Ser
 865 870 875 880
 Val Glu Phe Val Thr Asn Met Gly Ile Ile Ile Pro Asp Phe Ala Arg
 885 890 895
 Ser Gly Val Gln Met Asn Thr Asn Phe Phe His Glu Ser Gly Leu Glu
 900 905 910
 Ala His Val Ala Leu Lys Ala Gly Lys Leu Lys Phe Ile Ile Pro Ser
 915 920 925
 Pro Lys Arg Pro Val Lys Leu Leu Ser Gly Gly Asn Thr Leu His Leu
 930 935 940
 Val Ser Thr Thr Lys Thr Glu Val Ile Pro Pro Leu Ile Glu Asn Arg
 945 950 955 960
 Gln Ser Trp Ser Val Cys Lys Gln Val Phe Pro Gly Leu Asn Tyr Cys
 965 970 975

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Thr Ser Gly Ala Tyr Ser Asn Ala Ser Ser Thr Asp Ser Ala Ser Tyr
 980 985 990

Tyr Pro Leu Thr Gly Asp Thr Arg Leu Glu Leu Glu Leu Arg Pro Thr
 995 1000 1005

Gly Glu Ile Glu Gln Tyr Ser Val Ser Ala Thr Tyr Glu Leu Gln
 1010 1015 1020

Arg Glu Asp Arg Ala Leu Val Asp Thr Leu Lys Phe Val Thr Gln
 1025 1030 1035

Ala Glu Gly Ala Lys Gln Thr Glu Ala Thr Met Thr Phe Lys Tyr
 1040 1045 1050

Asn Arg Gln Ser Met Thr Leu Ser Ser Glu Val Gln Ile Pro Asp
 1055 1060 1065

Phe Asp Val Asp Leu Gly Thr Ile Leu Arg Val Asn Asp Glu Ser
 1070 1075 1080

Thr Glu Gly Lys Thr Ser Tyr Arg Leu Thr Leu Asp Ile Gln Asn
 1085 1090 1095

Lys Lys Ile Thr Glu Val Ala Leu Met Gly His Leu Ser Cys Asp
 1100 1105 1110

Thr Lys Glu Glu Arg Lys Ile Lys Gly Val Ile Ser Ile Pro Arg
 1115 1120 1125

Leu Gln Ala Glu Ala Arg Ser Glu Ile Leu Ala His Trp Ser Pro
 1130 1135 1140

Ala Lys Leu Leu Leu Gln Met Asp Ser Ser Ala Thr Ala Tyr Gly
 1145 1150 1155

Ser Thr Val Ser Lys Arg Val Ala Trp His Tyr Asp Glu Glu Lys
 1160 1165 1170

Ile Glu Phe Glu Trp Asn Thr Gly Thr Asn Val Asp Thr Lys Lys
 1175 1180 1185

Met Thr Ser Asn Phe Pro Val Asp Leu Ser Asp Tyr Pro Lys Ser
 1190 1195 1200

Leu His Met Tyr Ala Asn Arg Leu Leu Asp His Arg Val Pro Glu
 1205 1210 1215

Thr Asp Met Thr Phe Arg His Val Gly Ser Lys Leu Ile Val Ala
 1220 1225 1230

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Met	Ser	Ser	Trp	Leu	Gln	Lys	Ala	Ser	Gly	Ser	Leu	Pro	Tyr	Thr
	1235					1240					1245			
Gln	Thr	Leu	Gln	Asp	His	Leu	Asn	Ser	Leu	Lys	Glu	Phe	Asn	Leu
	1250					1255					1260			
Gln	Asn	Met	Gly	Leu	Pro	Asp	Phe	His	Ile	Pro	Glu	Asn	Leu	Phe
	1265					1270					1275			
Leu	Lys	Ser	Asp	Gly	Arg	Val	Lys	Tyr	Thr	Leu	Asn	Lys	Asn	Ser
	1280					1285					1290			
Leu	Lys	Ile	Glu	Ile	Pro	Leu	Pro	Phe	Gly	Gly	Lys	Ser	Ser	Arg
	1295					1300					1305			
Asp	Leu	Lys	Met	Leu	Glu	Thr	Val	Arg	Thr	Pro	Ala	Leu	His	Phe
	1310					1315					1320			
Lys	Ser	Val	Gly	Phe	His	Leu	Pro	Ser	Arg	Glu	Phe	Gln	Val	Pro
	1325					1330					1335			
Thr	Phe	Thr	Ile	Pro	Lys	Leu	Tyr	Gln	Leu	Gln	Val	Pro	Leu	Leu
	1340					1345					1350			
Gly	Val	Leu	Asp	Leu	Ser	Thr	Asn	Val	Tyr	Ser	Asn	Leu	Tyr	Asn
	1355					1360					1365			
Trp	Ser	Ala	Ser	Tyr	Ser	Gly	Gly	Asn	Thr	Ser	Thr	Asp	His	Phe
	1370					1375					1380			
Ser	Leu	Arg	Ala	Arg	Tyr	His	Met	Lys	Ala	Asp	Ser	Val	Val	Asp
	1385					1390					1395			
Leu	Leu	Ser	Tyr	Asn	Val	Gln	Gly	Ser	Gly	Glu	Thr	Thr	Tyr	Asp
	1400					1405					1410			
His	Lys	Asn	Thr	Phe	Thr	Leu	Ser	Cys	Asp	Gly	Ser	Leu	Arg	His
	1415					1420					1425			
Lys	Phe	Leu	Asp	Ser	Asn	Ile	Lys	Phe	Ser	His	Val	Glu	Lys	Leu
	1430					1435					1440			
Gly	Asn	Asn	Pro	Val	Ser	Lys	Gly	Leu	Leu	Ile	Phe	Asp	Ala	Ser
	1445					1450					1455			
Ser	Ser	Trp	Gly	Pro	Gln	Met	Ser	Ala	Ser	Val	His	Leu	Asp	Ser
	1460					1465					1470			
Lys	Lys	Lys	Gln	His	Leu	Phe	Val	Lys	Glu	Val	Lys	Ile	Asp	Gly
	1475					1480					1485			

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Gln	Phe	Arg	Val	Ser	Ser	Phe	Tyr	Ala	Lys	Gly	Thr	Tyr	Gly	Leu
	1490					1495					1500			
Ser	Cys	Gln	Arg	Asp	Pro	Asn	Thr	Gly	Arg	Leu	Asn	Gly	Glu	Ser
	1505					1510					1515			
Asn	Leu	Arg	Phe	Asn	Ser	Ser	Tyr	Leu	Gln	Gly	Thr	Asn	Gln	Ile
	1520					1525					1530			
Thr	Gly	Arg	Tyr	Glu	Asp	Gly	Thr	Leu	Ser	Leu	Thr	Ser	Thr	Ser
	1535					1540					1545			
Asp	Leu	Gln	Ser	Gly	Ile	Ile	Lys	Asn	Thr	Ala	Ser	Leu	Lys	Tyr
	1550					1555					1560			
Glu	Asn	Tyr	Glu	Leu	Thr	Leu	Lys	Ser	Asp	Thr	Asn	Gly	Lys	Tyr
	1565					1570					1575			
Lys	Asn	Phe	Ala	Thr	Ser	Asn	Lys	Met	Asp	Met	Thr	Phe	Ser	Lys
	1580					1585					1590			
Gln	Asn	Ala	Leu	Leu	Arg	Ser	Glu	Tyr	Gln	Ala	Asp	Tyr	Glu	Ser
	1595					1600					1605			
Leu	Arg	Phe	Phe	Ser	Leu	Leu	Ser	Gly	Ser	Leu	Asn	Ser	His	Gly
	1610					1615					1620			
Leu	Glu	Leu	Asn	Ala	Asp	Ile	Leu	Gly	Thr	Asp	Lys	Ile	Asn	Ser
	1625					1630					1635			
Gly	Ala	His	Lys	Ala	Thr	Leu	Arg	Ile	Gly	Gln	Asp	Gly	Ile	Ser
	1640					1645					1650			
Thr	Ser	Ala	Thr	Thr	Asn	Leu	Lys	Cys	Ser	Leu	Leu	Val	Leu	Glu
	1655					1660					1665			
Asn	Glu	Leu	Asn	Ala	Glu	Leu	Gly	Leu	Ser	Gly	Ala	Ser	Met	Lys
	1670					1675					1680			
Leu	Thr	Thr	Asn	Gly	Arg	Phe	Arg	Glu	His	Asn	Ala	Lys	Phe	Ser
	1685					1690					1695			
Leu	Asp	Gly	Lys	Ala	Ala	Leu	Thr	Glu	Leu	Ser	Leu	Gly	Ser	Ala
	1700					1705					1710			
Tyr	Gln	Ala	Met	Ile	Leu	Gly	Val	Asp	Ser	Lys	Asn	Ile	Phe	Asn
	1715					1720					1725			
Phe	Lys	Val	Ser	Gln	Glu	Gly	Leu	Lys	Leu	Ser	Asn	Asp	Met	Met
	1730					1735					1740			

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Gly	Ser	Tyr	Ala	Glu	Met	Lys	Phe	Asp	His	Thr	Asn	Ser	Leu	Asn
1745						1750					1755			
Ile	Ala	Gly	Leu	Ser	Leu	Asp	Phe	Ser	Ser	Lys	Leu	Asp	Asn	Ile
1760						1765					1770			
Tyr	Ser	Ser	Asp	Lys	Phe	Tyr	Lys	Gln	Thr	Val	Asn	Leu	Gln	Leu
1775						1780					1785			
Gln	Pro	Tyr	Ser	Leu	Val	Thr	Thr	Leu	Asn	Ser	Asp	Leu	Lys	Tyr
1790						1795					1800			
Asn	Ala	Leu	Asp	Leu	Thr	Asn	Asn	Gly	Lys	Leu	Arg	Leu	Glu	Pro
1805						1810					1815			
Leu	Lys	Leu	His	Val	Ala	Gly	Asn	Leu	Lys	Gly	Ala	Tyr	Gln	Asn
1820						1825					1830			
Asn	Glu	Ile	Lys	His	Ile	Tyr	Ala	Ile	Ser	Ser	Ala	Ala	Leu	Ser
1835						1840					1845			
Ala	Ser	Tyr	Lys	Ala	Asp	Thr	Val	Ala	Lys	Val	Gln	Gly	Val	Glu
1850						1855					1860			
Phe	Ser	His	Arg	Leu	Asn	Thr	Asp	Ile	Ala	Gly	Leu	Ala	Ser	Ala
1865						1870					1875			
Ile	Asp	Met	Ser	Thr	Asn	Tyr	Asn	Ser	Asp	Ser	Leu	His	Phe	Ser
1880						1885					1890			
Asn	Val	Phe	Arg	Ser	Val	Met	Ala	Pro	Phe	Thr	Met	Thr	Ile	Asp
1895						1900					1905			
Ala	His	Thr	Asn	Gly	Asn	Gly	Lys	Leu	Ala	Leu	Trp	Gly	Glu	His
1910						1915					1920			
Thr	Gly	Gln	Leu	Tyr	Ser	Lys	Phe	Leu	Leu	Lys	Ala	Glu	Pro	Leu
1925						1930					1935			
Ala	Phe	Thr	Phe	Ser	His	Asp	Tyr	Lys	Gly	Ser	Thr	Ser	His	His
1940						1945					1950			
Leu	Val	Ser	Arg	Lys	Ser	Ile	Ser	Ala	Ala	Leu	Glu	His	Lys	Val
1955						1960					1965			
Ser	Ala	Leu	Leu	Thr	Pro	Ala	Glu	Gln	Thr	Gly	Thr	Trp	Lys	Leu
1970						1975					1980			
Lys	Thr	Gln	Phe	Asn	Asn	Asn	Glu	Tyr	Ser	Gln	Asp	Leu	Asp	Ala
1985						1990					1995			

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Tyr	Asn	Thr	Lys	Asp	Lys	Ile	Gly	Val	Glu	Leu	Thr	Gly	Arg	Thr
	2000					2005					2010			
Leu	Ala	Asp	Leu	Thr	Leu	Leu	Asp	Ser	Pro	Ile	Lys	Val	Pro	Leu
	2015					2020					2025			
Leu	Leu	Ser	Glu	Pro	Ile	Asn	Ile	Ile	Asp	Ala	Leu	Glu	Met	Arg
	2030					2035					2040			
Asp	Ala	Val	Glu	Lys	Pro	Gln	Glu	Phe	Thr	Ile	Val	Ala	Phe	Val
	2045					2050					2055			
Lys	Tyr	Asp	Lys	Asn	Gln	Asp	Val	His	Ser	Ile	Asn	Leu	Pro	Phe
	2060					2065					2070			
Phe	Glu	Thr	Leu	Gln	Glu	Tyr	Phe	Glu	Arg	Asn	Arg	Gln	Thr	Ile
	2075					2080					2085			
Ile	Val	Val	Val	Glu	Asn	Val	Gln	Arg	Asn	Leu	Lys	His	Ile	Asn
	2090					2095					2100			
Ile	Asp	Gln	Phe	Val	Arg	Lys	Tyr	Arg	Ala	Ala	Leu	Gly	Lys	Leu
	2105					2110					2115			
Pro	Gln	Gln	Ala	Asn	Asp	Tyr	Leu	Asn	Ser	Phe	Asn	Trp	Glu	Arg
	2120					2125					2130			
Gln	Val	Ser	His	Ala	Lys	Glu	Lys	Leu	Thr	Ala	Leu	Thr	Lys	Lys
	2135					2140					2145			
Tyr	Arg	Ile	Thr	Glu	Asn	Asp	Ile	Gln	Ile	Ala	Leu	Asp	Asp	Ala
	2150					2155					2160			
Lys	Ile	Asn	Phe	Asn	Glu	Lys	Leu	Ser	Gln	Leu	Gln	Thr	Tyr	Met
	2165					2170					2175			
Ile	Gln	Phe	Asp	Gln	Tyr	Ile	Lys	Asp	Ser	Tyr	Asp	Leu	His	Asp
	2180					2185					2190			
Leu	Lys	Ile	Ala	Ile	Ala	Asn	Ile	Ile	Asp	Glu	Ile	Ile	Glu	Lys
	2195					2200					2205			
Leu	Lys	Ser	Leu	Asp	Glu	His	Tyr	His	Ile	Arg	Val	Asn	Leu	Val
	2210					2215					2220			
Lys	Thr	Ile	His	Asp	Leu	His	Leu	Phe	Ile	Glu	Asn	Ile	Asp	Phe
	2225					2230					2235			
Asn	Lys	Ser	Gly	Ser	Ser	Thr	Ala	Ser	Trp	Ile	Gln	Asn	Val	Asp
	2240					2245					2250			

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Thr	Lys 2255	Tyr	Gln	Ile	Arg	Ile 2260	Gln	Ile	Gln	Glu	Lys 2265	Leu	Gln	Gln
Leu	Lys 2270	Arg	His	Ile	Gln	Asn 2275	Ile	Asp	Ile	Gln	His 2280	Leu	Ala	Gly
Lys	Leu 2285	Lys	Gln	His	Ile	Glu 2290	Ala	Ile	Asp	Val	Arg 2295	Val	Leu	Leu
Asp	Gln 2300	Leu	Gly	Thr	Thr	Ile 2305	Ser	Phe	Glu	Arg	Ile 2310	Asn	Asp	Val
Leu	Glu 2315	His	Val	Lys	His	Phe 2320	Val	Ile	Asn	Leu	Ile 2325	Gly	Asp	Phe
Glu	Val 2330	Ala	Glu	Lys	Ile	Asn 2335	Ala	Phe	Arg	Ala	Lys 2340	Val	His	Glu
Leu	Ile 2345	Glu	Arg	Tyr	Glu	Val 2350	Asp	Gln	Gln	Ile	Gln 2355	Val	Leu	Met
Asp	Lys 2360	Leu	Val	Glu	Leu	Thr 2365	His	Gln	Tyr	Lys	Leu 2370	Lys	Glu	Thr
Ile	Gln 2375	Lys	Leu	Ser	Asn	Val 2380	Leu	Gln	Gln	Val	Lys 2385	Ile	Lys	Asp
Tyr	Phe 2390	Glu	Lys	Leu	Val	Gly 2395	Phe	Ile	Asp	Asp	Ala 2400	Val	Lys	Lys
Leu	Asn 2405	Glu	Leu	Ser	Phe	Lys 2410	Thr	Phe	Ile	Glu	Asp 2415	Val	Asn	Lys
Phe	Leu 2420	Asp	Met	Leu	Ile	Lys 2425	Lys	Leu	Lys	Ser	Phe 2430	Asp	Tyr	His
Gln	Phe 2435	Val	Asp	Glu	Thr	Asn 2440	Asp	Lys	Ile	Arg	Glu 2445	Val	Thr	Gln
Arg	Leu 2450	Asn	Gly	Glu	Ile	Gln 2455	Ala	Leu	Glu	Leu	Pro 2460	Gln	Lys	Ala
Glu	Ala 2465	Leu	Lys	Leu	Phe	Leu 2470	Glu	Glu	Thr	Lys	Ala 2475	Thr	Val	Ala
Val	Tyr 2480	Leu	Glu	Ser	Leu	Gln 2485	Asp	Thr	Lys	Ile	Thr 2490	Leu	Ile	Ile
Asn	Trp 2495	Leu	Gln	Glu	Ala	Leu 2500	Ser	Ser	Ala	Ser	Leu 2505	Ala	His	Met

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Lys	Ala	Lys	Phe	Arg	Glu	Thr	Leu	Glu	Asp	Thr	Arg	Asp	Arg	Met
	2510					2515					2520			
Tyr	Gln	Met	Asp	Ile	Gln	Gln	Glu	Leu	Gln	Arg	Tyr	Leu	Ser	Leu
	2525					2530					2535			
Val	Gly	Gln	Val	Tyr	Ser	Thr	Leu	Val	Thr	Tyr	Ile	Ser	Asp	Trp
	2540					2545					2550			
Trp	Thr	Leu	Ala	Ala	Lys	Asn	Leu	Thr	Asp	Phe	Ala	Glu	Gln	Tyr
	2555					2560					2565			
Ser	Ile	Gln	Asp	Trp	Ala	Lys	Arg	Met	Lys	Ala	Leu	Val	Glu	Gln
	2570					2575					2580			
Gly	Phe	Thr	Val	Pro	Glu	Ile	Lys	Thr	Ile	Leu	Gly	Thr	Met	Pro
	2585					2590					2595			
Ala	Phe	Glu	Val	Ser	Leu	Gln	Ala	Leu	Gln	Lys	Ala	Thr	Phe	Gln
	2600					2605					2610			
Thr	Pro	Asp	Phe	Ile	Val	Pro	Leu	Thr	Asp	Leu	Arg	Ile	Pro	Ser
	2615					2620					2625			
Val	Gln	Ile	Asn	Phe	Lys	Asp	Leu	Lys	Asn	Ile	Lys	Ile	Pro	Ser
	2630					2635					2640			
Arg	Phe	Ser	Thr	Pro	Glu	Phe	Thr	Ile	Leu	Asn	Thr	Phe	His	Ile
	2645					2650					2655			
Pro	Ser	Phe	Thr	Ile	Asp	Phe	Val	Glu	Met	Lys	Val	Lys	Ile	Ile
	2660					2665					2670			
Arg	Thr	Ile	Asp	Gln	Met	Gln	Asn	Ser	Glu	Leu	Gln	Trp	Pro	Val
	2675					2680					2685			
Pro	Asp	Ile	Tyr	Leu	Arg	Asp	Leu	Lys	Val	Glu	Asp	Ile	Pro	Leu
	2690					2695					2700			
Ala	Arg	Ile	Thr	Leu	Pro	Asp	Phe	Arg	Leu	Pro	Glu	Ile	Ala	Ile
	2705					2710					2715			
Pro	Glu	Phe	Ile	Ile	Pro	Thr	Leu	Asn	Leu	Asn	Asp	Phe	Gln	Val
	2720					2725					2730			
Pro	Asp	Leu	His	Ile	Pro	Glu	Phe	Gln	Leu	Pro	His	Ile	Ser	His
	2735					2740					2745			
Thr	Ile	Glu	Val	Pro	Thr	Phe	Gly	Lys	Leu	Tyr	Ser	Ile	Leu	Lys
	2750					2755					2760			

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Ile Gln Ser Pro Leu Phe Thr Leu Asp Ala Asn Ala Asp Ile Gly
 2765 2770 2775
 Asn Gly Thr Thr Ser Ala Asn Glu Ala Gly Ile Ala Ala Ser Ile
 2780 2785 2790
 Thr Ala Lys Gly Glu Ser Lys Leu Glu Val Leu Asn Phe Asp Phe
 2795 2800 2805
 Gln Ala Asn Ala Gln Leu Ser Asn Pro Lys Ile Asn Pro Leu Ala
 2810 2815 2820
 Leu Lys Glu Ser Val Lys Phe Ser Ser Lys Tyr Leu Arg Thr Glu
 2825 2830 2835
 His Gly Ser Glu Met Leu Phe Phe Gly Asn Ala Ile Glu Gly Lys
 2840 2845 2850
 Ser Asn Thr Val Ala Ser Leu His Thr Glu Lys Asn Thr Leu Glu
 2855 2860 2865
 Leu Ser Asn Gly Val Ile Val Lys Ile Asn Asn Gln Leu Thr Leu
 2870 2875 2880
 Asp Ser Asn Thr Lys Tyr Phe His Lys Leu Asn Ile Pro Lys Leu
 2885 2890 2895
 Asp Phe Ser Ser Gln Ala Asp Leu Arg Asn Glu Ile Lys Thr Leu
 2900 2905 2910
 Leu Lys Ala Gly His Ile Ala Trp Thr Ser Ser Gly Lys Gly Ser
 2915 2920 2925
 Trp Lys Trp Ala Cys Pro Arg Phe Ser Asp Glu Gly Thr His Glu
 2930 2935 2940
 Ser Gln Ile Ser Phe Thr Ile Glu Gly Pro Leu Thr Ser Phe Gly
 2945 2950 2955
 Leu Ser Asn Lys Ile Asn Ser Lys His Leu Arg Val Asn Gln Asn
 2960 2965 2970
 Leu Val Tyr Glu Ser Gly Ser Leu Asn Phe Ser Lys Leu Glu Ile
 2975 2980 2985
 Gln Ser Gln Val Asp Ser Gln His Val Gly His Ser Val Leu Thr
 2990 2995 3000
 Ala Lys Gly Met Ala Leu Phe Gly Glu Gly Lys Ala Glu Phe Thr
 3005 3010 3015

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Gly Arg His Asp Ala His Leu Asn Gly Lys Val Ile Gly Thr Leu
 3020 3025 3030
 Lys Asn Ser Leu Phe Phe Ser Ala Gln Pro Phe Glu Ile Thr Ala
 3035 3040 3045
 Ser Thr Asn Asn Glu Gly Asn Leu Lys Val Arg Phe Pro Leu Arg
 3050 3055 3060
 Leu Thr Gly Lys Ile Asp Phe Leu Asn Asn Tyr Ala Leu Phe Leu
 3065 3070 3075
 Ser Pro Ser Ala Gln Gln Ala Ser Trp Gln Val Ser Ala Arg Phe
 3080 3085 3090
 Asn Gln Tyr Lys Tyr Asn Gln Asn Phe Ser Ala Gly Asn Asn Glu
 3095 3100 3105
 Asn Ile Met Glu Ala His Val Gly Ile Asn Gly Glu Ala Asn Leu
 3110 3115 3120
 Asp Phe Leu Asn Ile Pro Leu Thr Ile Pro Glu Met Arg Leu Pro
 3125 3130 3135
 Tyr Thr Ile Ile Thr Thr Pro Pro Leu Lys Asp Phe Ser Leu Trp
 3140 3145 3150
 Glu Lys Thr Gly Leu Lys Glu Phe Leu Lys Thr Thr Lys Gln Ser
 3155 3160 3165
 Phe Asp Leu Ser Val Lys Ala Gln Tyr Lys Lys Asn Lys His Arg
 3170 3175 3180
 His Ser Ile Thr Asn Pro Leu Ala Val Leu Cys Glu Phe Ile Ser
 3185 3190 3195
 Gln Ser Ile Lys Ser Phe Asp Arg His Phe Glu Lys Asn Arg Asn
 3200 3205 3210
 Asn Ala Leu Asp Phe Val Thr Lys Ser Tyr Asn Glu Thr Lys Ile
 3215 3220 3225
 Lys Phe Asp Lys Tyr Lys Ala Glu Lys Ser His Asp Glu Leu Pro
 3230 3235 3240
 Arg Thr Phe Gln Ile Pro Gly Tyr Thr Val Pro Val Val Asn Val
 3245 3250 3255
 Glu Val Ser Pro Phe Thr Ile Glu Met Ser Ala Phe Gly Tyr Val
 3260 3265 3270

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Phe	Pro	Lys	Ala	Val	Ser	Met	Pro	Ser	Phe	Ser	Ile	Leu	Gly	Ser
	3275					3280					3285			
Asp	Val	Arg	Val	Pro	Ser	Tyr	Thr	Leu	Ile	Leu	Pro	Ser	Leu	Glu
	3290					3295					3300			
Leu	Pro	Val	Leu	His	Val	Pro	Arg	Asn	Leu	Lys	Leu	Ser	Leu	Pro
	3305					3310					3315			
His	Phe	Lys	Glu	Leu	Cys	Thr	Ile	Ser	His	Ile	Phe	Ile	Pro	Ala
	3320					3325					3330			
Met	Gly	Asn	Ile	Thr	Tyr	Asp	Phe	Ser	Phe	Lys	Ser	Ser	Val	Ile
	3335					3340					3345			
Thr	Leu	Asn	Thr	Asn	Ala	Glu	Leu	Phe	Asn	Gln	Ser	Asp	Ile	Val
	3350					3355					3360			
Ala	His	Leu	Leu	Ser	Ser	Ser	Ser	Ser	Val	Ile	Asp	Ala	Leu	Gln
	3365					3370					3375			
Tyr	Lys	Leu	Glu	Gly	Thr	Thr	Arg	Leu	Thr	Arg	Lys	Arg	Gly	Leu
	3380					3385					3390			
Lys	Leu	Ala	Thr	Ala	Leu	Ser	Leu	Ser	Asn	Lys	Phe	Val	Glu	Gly
	3395					3400					3405			
Ser	His	Asn	Ser	Thr	Val	Ser	Leu	Thr	Thr	Lys	Asn	Met	Glu	Val
	3410					3415					3420			
Ser	Val	Ala	Lys	Thr	Thr	Lys	Ala	Glu	Ile	Pro	Ile	Leu	Arg	Met
	3425					3430					3435			
Asn	Phe	Lys	Gln	Glu	Leu	Asn	Gly	Asn	Thr	Lys	Ser	Lys	Pro	Thr
	3440					3445					3450			
Val	Ser	Ser	Ser	Met	Glu	Phe	Lys	Tyr	Asp	Phe	Asn	Ser	Ser	Met
	3455					3460					3465			
Leu	Tyr	Ser	Thr	Ala	Lys	Gly	Ala	Val	Asp	His	Lys	Leu	Ser	Leu
	3470					3475					3480			
Glu	Ser	Leu	Thr	Ser	Tyr	Phe	Ser	Ile	Glu	Ser	Ser	Thr	Lys	Gly
	3485					3490					3495			
Asp	Val	Lys	Gly	Ser	Val	Leu	Ser	Arg	Glu	Tyr	Ser	Gly	Thr	Ile
	3500					3505					3510			
Ala	Ser	Glu	Ala	Asn	Thr	Tyr	Leu	Asn	Ser	Lys	Ser	Thr	Arg	Ser
	3515					3520					3525			

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Ser	Val	Lys	Leu	Gln	Gly	Thr	Ser	Lys	Ile	Asp	Asp	Ile	Trp	Asn
	3530					3535					3540			
Leu	Glu	Val	Lys	Glu	Asn	Phe	Ala	Gly	Glu	Ala	Thr	Leu	Gln	Arg
	3545					3550					3555			
Ile	Tyr	Ser	Leu	Trp	Glu	His	Ser	Thr	Lys	Asn	His	Leu	Gln	Leu
	3560					3565					3570			
Glu	Gly	Leu	Phe	Phe	Thr	Asn	Gly	Glu	His	Thr	Ser	Lys	Ala	Thr
	3575					3580					3585			
Leu	Glu	Leu	Ser	Pro	Trp	Gln	Met	Ser	Ala	Leu	Val	Gln	Val	His
	3590					3595					3600			
Ala	Ser	Gln	Pro	Ser	Ser	Phe	His	Asp	Phe	Pro	Asp	Leu	Gly	Gln
	3605					3610					3615			
Glu	Val	Ala	Leu	Asn	Ala	Asn	Thr	Lys	Asn	Gln	Lys	Ile	Arg	Trp
	3620					3625					3630			
Lys	Asn	Glu	Val	Arg	Ile	His	Ser	Gly	Ser	Phe	Gln	Ser	Gln	Val
	3635					3640					3645			
Glu	Leu	Ser	Asn	Asp	Gln	Glu	Lys	Ala	His	Leu	Asp	Ile	Ala	Gly
	3650					3655					3660			
Ser	Leu	Glu	Gly	His	Leu	Arg	Phe	Leu	Lys	Asn	Ile	Ile	Leu	Pro
	3665					3670					3675			
Val	Tyr	Asp	Lys	Ser	Leu	Trp	Asp	Phe	Leu	Lys	Leu	Asp	Val	Thr
	3680					3685					3690			
Thr	Ser	Ile	Gly	Arg	Arg	Gln	His	Leu	Arg	Val	Ser	Thr	Ala	Phe
	3695					3700					3705			
Val	Tyr	Thr	Lys	Asn	Pro	Asn	Gly	Tyr	Ser	Phe	Ser	Ile	Pro	Val
	3710					3715					3720			
Lys	Val	Leu	Ala	Asp	Lys	Phe	Ile	Thr	Pro	Gly	Leu	Lys	Leu	Asn
	3725					3730					3735			
Asp	Leu	Asn	Ser	Val	Leu	Val	Met	Pro	Thr	Phe	His	Val	Pro	Phe
	3740					3745					3750			
Thr	Asp	Leu	Gln	Val	Pro	Ser	Cys	Lys	Leu	Asp	Phe	Arg	Glu	Ile
	3755					3760					3765			
Gln	Ile	Tyr	Lys	Lys	Leu	Arg	Thr	Ser	Ser	Phe	Ala	Leu	Asn	Leu
	3770					3775					3780			

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Pro	Thr	Leu	Pro	Glu	Val	Lys	Phe	Pro	Glu	Val	Asp	Val	Leu	Thr
	3785					3790					3795			
Lys	Tyr	Ser	Gln	Pro	Glu	Asp	Ser	Leu	Ile	Pro	Phe	Phe	Glu	Ile
	3800					3805					3810			
Thr	Val	Pro	Glu	Ser	Gln	Leu	Thr	Val	Ser	Gln	Phe	Thr	Leu	Pro
	3815					3820					3825			
Lys	Ser	Val	Ser	Asp	Gly	Ile	Ala	Ala	Leu	Asp	Leu	Asn	Ala	Val
	3830					3835					3840			
Ala	Asn	Lys	Ile	Ala	Asp	Phe	Glu	Leu	Pro	Thr	Ile	Ile	Val	Pro
	3845					3850					3855			
Glu	Gln	Thr	Ile	Glu	Ile	Pro	Ser	Ile	Lys	Phe	Ser	Val	Pro	Ala
	3860					3865					3870			
Gly	Ile	Val	Ile	Pro	Ser	Phe	Gln	Ala	Leu	Thr	Ala	Arg	Phe	Glu
	3875					3880					3885			
Val	Asp	Ser	Pro	Val	Tyr	Asn	Ala	Thr	Trp	Ser	Ala	Ser	Leu	Lys
	3890					3895					3900			
Asn	Lys	Ala	Asp	Tyr	Val	Glu	Thr	Val	Leu	Asp	Ser	Thr	Cys	Ser
	3905					3910					3915			
Ser	Thr	Val	Gln	Phe	Leu	Glu	Tyr	Glu	Leu	Asn	Val	Leu	Gly	Thr
	3920					3925					3930			
His	Lys	Ile	Glu	Asp	Gly	Thr	Leu	Ala	Ser	Lys	Thr	Lys	Gly	Thr
	3935					3940					3945			
Leu	Ala	His	Arg	Asp	Phe	Ser	Ala	Glu	Tyr	Glu	Glu	Asp	Gly	Lys
	3950					3955					3960			
Phe	Glu	Gly	Leu	Gln	Glu	Trp	Glu	Gly	Lys	Ala	His	Leu	Asn	Ile
	3965					3970					3975			
Lys	Ser	Pro	Ala	Phe	Thr	Asp	Leu	His	Leu	Arg	Tyr	Gln	Lys	Asp
	3980					3985					3990			
Lys	Lys	Gly	Ile	Ser	Thr	Ser	Ala	Ala	Ser	Pro	Ala	Val	Gly	Thr
	3995					4000					4005			
Val	Gly	Met	Asp	Met	Asp	Glu	Asp	Asp	Asp	Phe	Ser	Lys	Trp	Asn
	4010					4015					4020			
Phe	Tyr	Tyr	Ser	Pro	Gln	Ser	Ser	Pro	Asp	Lys	Lys	Leu	Thr	Ile
	4025					4030					4035			

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Phe Lys Thr Glu Leu Arg Val Arg Glu Ser Asp Glu Glu Thr Gln
 4040 4045 4050
 Ile Lys Val Asn Trp Glu Glu Glu Ala Ala Ser Gly Leu Leu Thr
 4055 4060 4065
 Ser Leu Lys Asp Asn Val Pro Lys Ala Thr Gly Val Leu Tyr Asp
 4070 4075 4080
 Tyr Val Asn Lys Tyr His Trp Glu His Thr Gly Leu Thr Leu Arg
 4085 4090 4095
 Glu Val Ser Ser Lys Leu Arg Arg Asn Leu Gln Asn Asn Ala Glu
 4100 4105 4110
 Trp Val Tyr Gln Gly Ala Ile Arg Gln Ile Asp Asp Ile Asp Val
 4115 4120 4125
 Arg Phe Gln Lys Ala Ala Ser Gly Thr Thr Gly Thr Tyr Gln Glu
 4130 4135 4140
 Trp Lys Asp Lys Ala Gln Asn Leu Tyr Gln Glu Leu Leu Thr Gln
 4145 4150 4155
 Glu Gly Gln Ala Ser Phe Gln Gly Leu Lys Asp Asn Val Phe Asp
 4160 4165 4170
 Gly Leu Val Arg Val Thr Gln Lys Phe His Met Lys Val Lys His
 4175 4180 4185
 Leu Ile Asp Ser Leu Ile Asp Phe Leu Asn Phe Pro Arg Phe Gln
 4190 4195 4200
 Phe Pro Gly Lys Pro Gly Ile Tyr Thr Arg Glu Glu Leu Cys Thr
 4205 4210 4215
 Met Phe Ile Arg Glu Val Gly Thr Val Leu Ser Gln Val Tyr Ser
 4220 4225 4230
 Lys Val His Asn Gly Ser Glu Ile Leu Phe Ser Tyr Phe Gln Asp
 4235 4240 4245
 Leu Val Ile Thr Leu Pro Phe Glu Leu Arg Lys His Lys Leu Ile
 4250 4255 4260
 Asp Val Ile Ser Met Tyr Arg Glu Leu Leu Lys Asp Leu Ser Lys
 4265 4270 4275
 Glu Ala Gln Glu Val Phe Lys Ala Ile Gln Ser Leu Lys Thr Thr
 4280 4285 4290

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Glu Val Leu Arg Asn Leu Gln Asp Leu Leu Gln Phe Ile Phe Gln
 4295 4300 4305
 Leu Ile Glu Asp Asn Ile Lys Gln Leu Lys Glu Met Lys Phe Thr
 4310 4315 4320
 Tyr Leu Ile Asn Tyr Ile Gln Asp Glu Ile Asn Thr Ile Phe Asn
 4325 4330 4335
 Asp Tyr Ile Pro Tyr Val Phe Lys Leu Leu Lys Glu Asn Leu Cys
 4340 4345 4350
 Leu Asn Leu His Lys Phe Asn Glu Phe Ile Gln Asn Glu Leu Gln
 4355 4360
 Glu Ala Ser Gln Glu Leu Gln Gln Ile His Gln Tyr Ile Met Ala
 4370 4375 4380
 Leu Arg Glu Glu Tyr Phe Asp Pro Ser Ile Val Gly Trp Thr Val
 4385 4390 4395
 Lys Tyr Tyr Glu Leu Glu Glu Lys Ile Val Ser Leu Ile Lys Asn
 4400 4405 4410
 Leu Leu Val Ala Leu Lys Asp Phe His Ser Glu Tyr Ile Val Ser
 4415 4420 4425
 Ala Ser Asn Phe Thr Ser Gln Leu Ser Ser Gln Val Glu Gln Phe
 4430 4435 4440
 Leu His Arg Asn Ile Gln Glu Tyr Leu Ser Ile Leu Thr Asp Pro
 4445 4450 4455
 Asp Gly Lys Gly Lys Glu Lys Ile Ala Glu Leu Ser Ala Thr Ala
 4460 4465 4470
 Gln Glu Ile Ile Lys Ser Gln Ala Ile Ala Thr Lys Lys Ile Ile
 4475 4480 4485
 Ser Asp Tyr His Gln Gln Phe Arg Tyr Lys Leu Gln Asp Phe Ser
 4490 4495 4500
 Asp Gln Leu Ser Asp Tyr Tyr Glu Lys Phe Ile Ala Glu Ser Lys
 4505 4510 4515
 Arg Leu Ile Asp Leu Ser Ile Gln Asn Tyr His Thr Phe Leu Ile
 4520 4525 4530
 Tyr Ile Thr Glu Leu Leu Lys Lys Leu Gln Ser Thr Thr Val Met
 4535 4540 4545

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Asn Pro Tyr Met Lys Leu Ala Pro Gly Glu Leu Thr Ile Ile Leu
 4550 4555 4560

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 <212> PRT
 <213> Homo sapiens

<400> 2

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
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Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30

Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
 35 40 45

Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln
 50 55 60

Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
 65 70 75 80

Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu
 85 90 95

Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
 100 105 110

Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp
 115 120 125

Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu
 130 135 140

Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg
 145 150 155 160

Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg
 165 170 175

Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu
 180 185 190

Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val
 195 200 205

Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg
 210 215 220

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Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly
 225 230 235 240

Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu
 245 250 255

Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala
 260 265 270

Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu
 275 280 285

Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala
 290 295 300

Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
 305 310 315

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22

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22

<210> 6
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<223> Synthetic DNA

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